

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>P700139PCT/AJC/JGSAC</b>		<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. <b>PCT/GB00/02125</b>	International filing date (day/month/year) <b>02/06/2000</b>	Priority date (day/month/year) <b>02/06/1999</b>
International Patent Classification (IPC) or national classification and IPC <b>B60T17/02</b>		
Applicant <b>WABCO AUTOMOTIVE UK LIMITED et al.</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  <b>20/12/2000</b>	Date of completion of this report  <b>07.03.2001</b>
Name and mailing address of the international preliminary examining authority:   <b>European Patent Office</b> <b>D-80298 Munich</b> <b>Tel. +49 89 2399 - 0 Tx: 523656 epmu d</b> <b>Fax: +49 89 2399 - 4465</b>	Authorized officer  <b>Schmid, K</b>  Telephone No. <b>+49 89 2399 8876</b> 

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02125

## I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, pages:**

1-6 as originally filed

**Claims, No.:**

1-13 as originally filed

**Drawings, sheets:**

1/1 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02125

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Yes:	Claims 1-13
	No:	Claims
Inventive step (IS)	Yes:	Claims 1-13
	No:	Claims
Industrial applicability (IA)	Yes:	Claims 1-13
	No:	Claims

2. Citations and explanations  
**see separate sheet**

## VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:  
**see separate sheet**

**Point V**

**1. Claims 1, 8, 9 and 13**

Typical air braking systems are disclosed on page 1, lines 4 - 19, comprising at least a compressor, a reservoir control means having an output and different signal inputs.

The technical problem to be solved by the invention is to reduce the fuel consumption caused by the compressor on-time (page 1, paragraph 5, page 2, lines 1 and 2, page 3, lines 1 and 2).

To solve the said problem a target pressure is calculated from vehicle operating states and the compressor is controlled with respect to this target.

This feature, especially the target pressure dependent control, is neither known nor rendered obvious from the available prior art.

Therefore, the control system for the compressor of a vehicle air braking system according to claims 1, 8 and 9, as well as the method of controlling the compressor of a vehicle air braking system according to claim 13 seem to fulfil the requirements of Article 33 PCT.

**2. Claims 2 - 7 and 10 - 12**

The dependent claims 2 - 7 and 10 - 12 refer to advantageous designs of the control systems according to the independent claims 1, 8 and 9 and, therefore, they also seem to fulfil the requirements of Article 33 PCT.

**Point VII**

Claims 1 and 13 do not comprise the important (essential) feature of the "higher pressure target during throttle off modes" (page 6, last line).